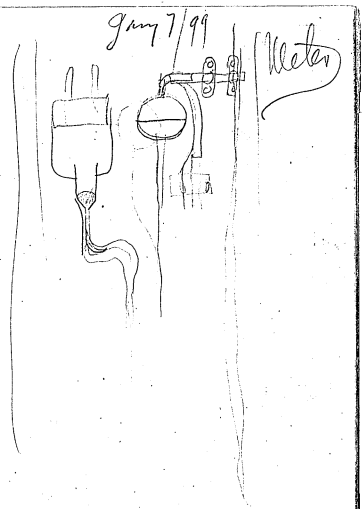
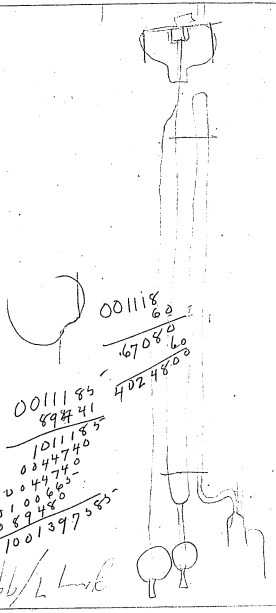
Notebook, N-99-01-07

This notebook covers the periods January 1899 and January 1903. All entries are by Edison. The book has been used in both directions. At one end are notes and drawings from 1899 regarding electric meters. At the other end are entries from 1903 that appear to be preliminary drawings for patent applications pertaining to the projecting kinetoscope and to storage batteries for use at central stations. There are also some notes relating to mica deposits in the United States and Canada. The pages are unnumbered. Approximately 80 pages have been used.

N-99-01-07

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001118
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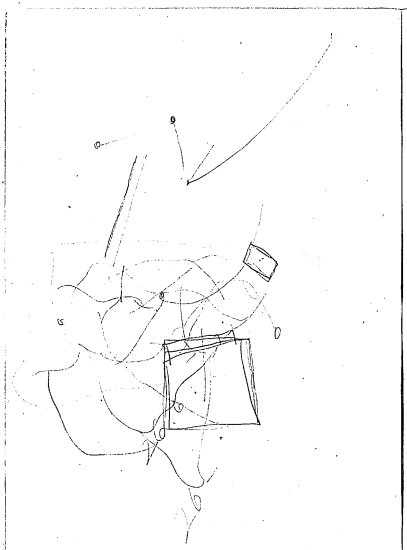
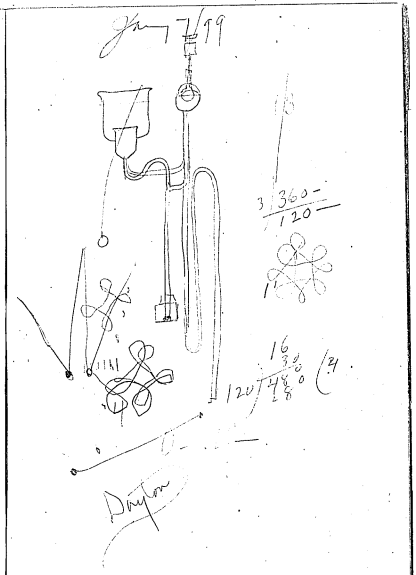
1011185
004474
004465
000648
1001397585




7/19
3360
120
16
120
Dayton

30% of 1 = 1.32
15% of 2 = 1.
7.5% of 4 = 8
3.7% of 8 = ?

9 3/10
2.83
8-

1.32

1

4.32

1.32 4.32

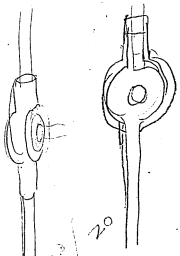
430
32
129°

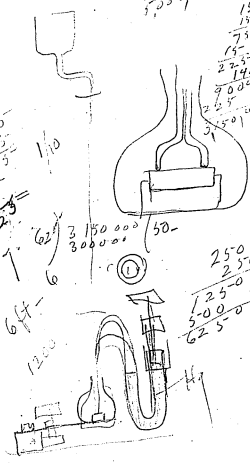
1 50
2 25
4 12
8 6

·282
8
2·256
259
2.515
5.032

12 | 282 | 23
24
42

84- 282
23
259





1.44

1/2%

4.72
9.44 — 10 — 21

9.44" 1/2% less
4.72" width —
1/4% less 9 Lamps

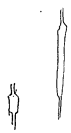
4.72

40 | 189 (4.72
160
290
280
100

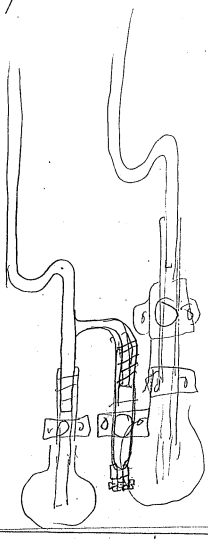
4 | 1.5.6.25
3906

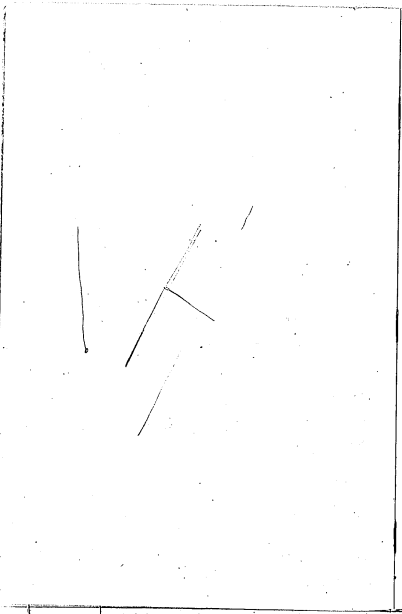
225

3906.
250
1950
7812
97650
7650
225

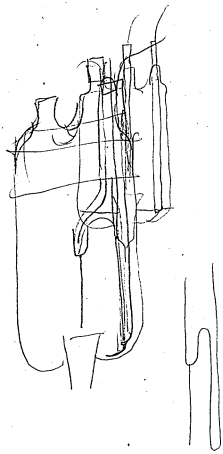


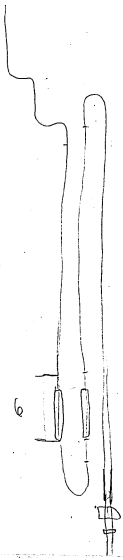
Gary 11/99




18
82
21.5
23.8
17
2
2
17000

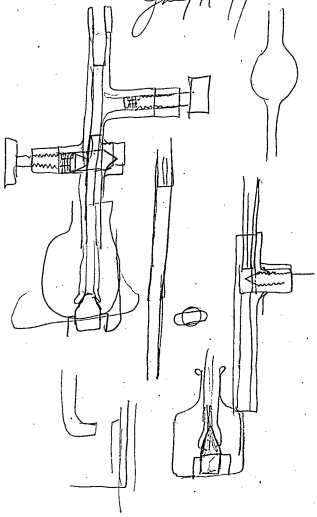
Jan 11 199



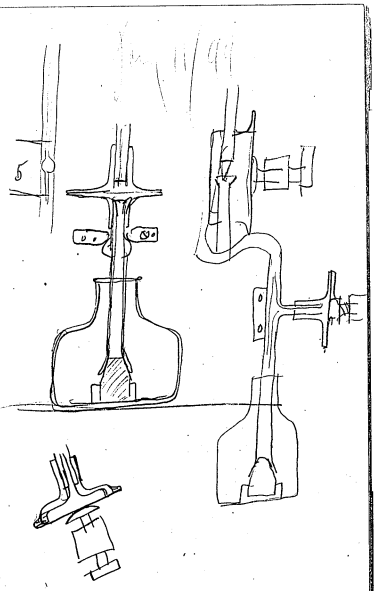


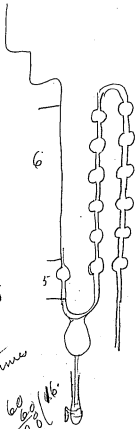
16- 4
1 16-

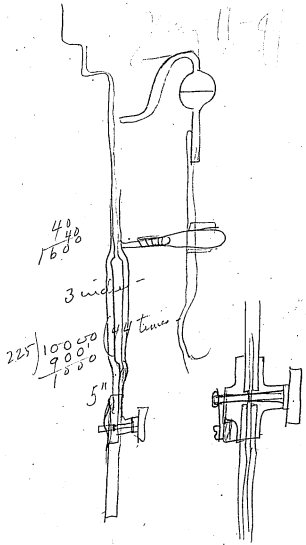
6

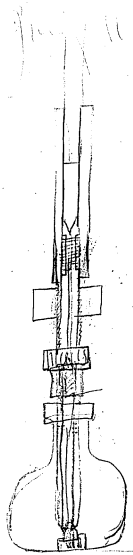


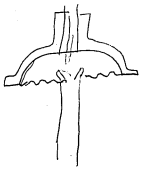
Jan 11 99

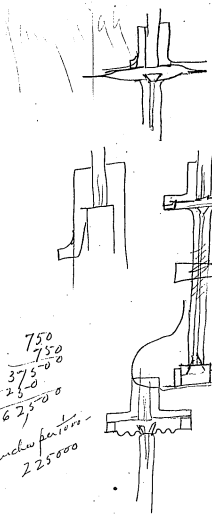



15
15
15
15
225
6
5
225
6
155
6 times
4
2
60
225
3750
2250
1350
186


40
160
3 inches
6 times
225
10000
9000
7500
5"

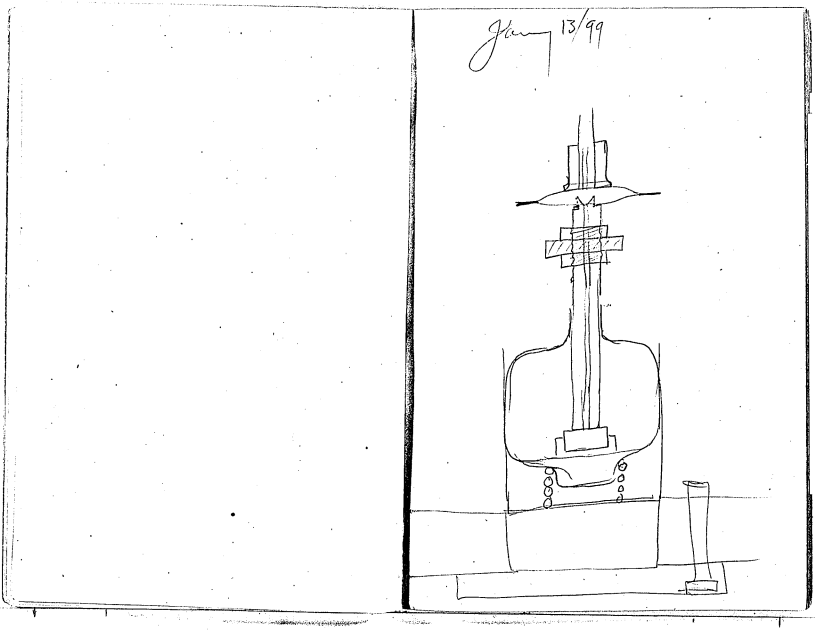






750
750
375-0
525-0
562500

2 inch web section -
225000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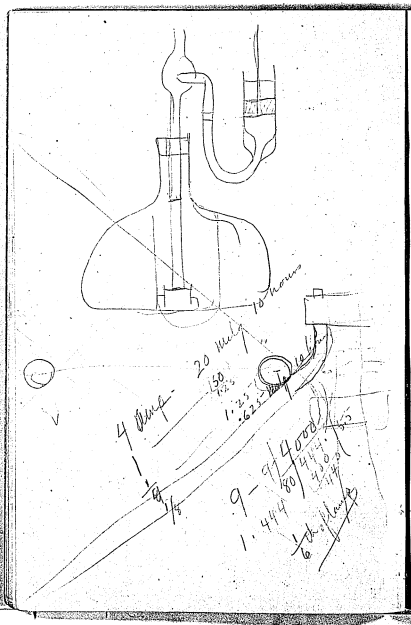
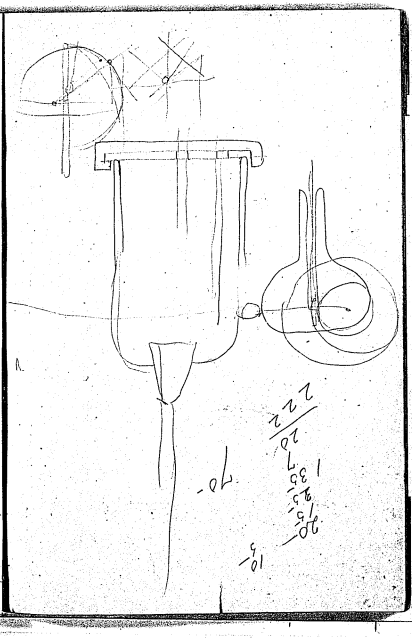
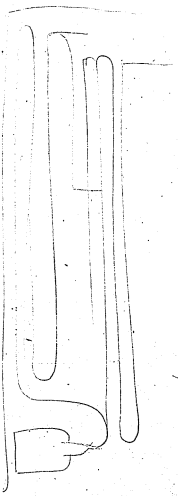




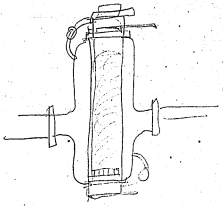


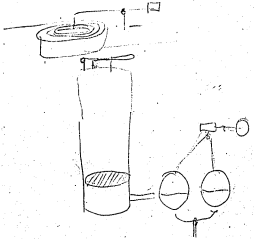
4 - 1 Lamp
4 - 6 " "
4 - 12 " 3 hours 1 Lamp 24 hours
4 - 12 Lamp 3 hours
4 - 6 Lamp 3 hours

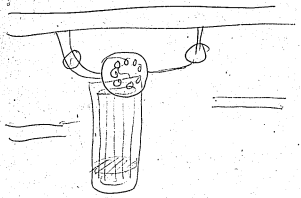
100

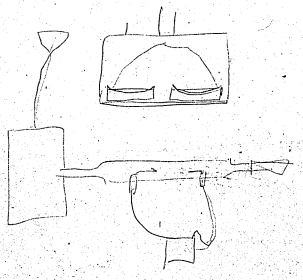
Box	25 00	
glass-Goeth.	15 00	
Blowing	20 00	
Grinding	5 00	
Cork -	1,50	
Electrician.	3 50	
Bottle	2 00	
Mercury U.	5 00	
plunger Screw -	8 00	
Brass -	7 00	
Lamp -	7 00	151
Strip -	5 00	75 general
screw -	7 00	5 | 226
Spool-wire-thread	5 00.	45
Rubber Clamp	15 00	5 | 2.71 Cost
Assembling	5 00	
Calibrating	8 00,	
Workmanship	151 00	

130
30
6
5 | 36
4









250 000

1500
1500
1500000
75-0000
15-00000
225
75
15
3

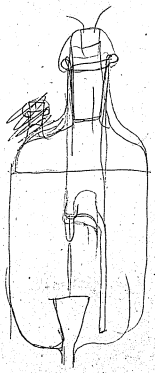
18.
60
1080 -
225
5400
2160
2160000
243

15-
22 3-

80 | 40000 | 50 - lens

1½ deg
2 deg
hour
38
1½ deg
5
25 hours
1 deg
6.

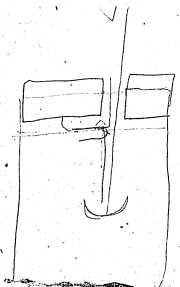
2 million
243/1000
¼ inch -



Subnitrate or Normal
Mercurous Nitrate.

$(Hg_2)''2NO_3\ 2OH_2$
is obtained by Excess of ~~Hg~~ in
Nitric acid ~~dobtained~~
with 4 or 5 times bulk
water —
Water decomp it into
yellow insol dibasic
salt, $(Hg_2)''2NO_3 \cdot Hg_2O_2OH_2$
+ an acid salt —
Quantitive ~~Estimable~~ Subnitrate
sometimes mistaken for
the Normal is obtained

by digesting Excess of Hg in
dilute Nitric acid.

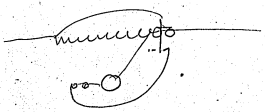


2 milgms hour

10 3. milgms hour -

270 -

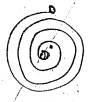
750 milgms



Nitride Copper —
Nitride Electrolytically
See Copper Nitride Doré

See Deoxy. oxide Copper
Nitride

Chromic Chloride
Peach blossom —
Chromium Chloride
Chrom Some —



12 | 1728 (144 — 50 — 7200 — in 4 min —

50

16 | 60 | 4 cubic feet Carbon

2 | 1728 — 60 ft —

4 minutes per ft gas

50 lbs pressure — 1 atmosphere —

wt one lb —

1 lb gas 4 ft carbon

12 ft 0 — 3 lbs hour

1230.

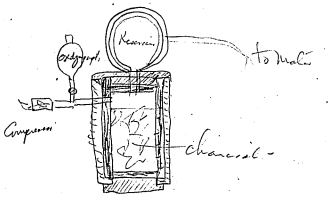
60

2 amp hours per lb

1 ft 133 ft gas

15 | Road | 133 | 44 | 120 | 5280 | 5280

Meters 13 HB



Chlorate Potash
Bichromate K
Nitrate Soda
Peroxide Lead
1 " Manganese
Hypochlorite Lime
Chromate Lead
Permanganate of K Pb Clo
Lime Sulphur mixed

75 tons
53-
375-
412
375
412

1250
110
125-0
125-0
137 5-0 68 (37
82 5 0
67 2 0 0
2240 | 96 | 2 7 0 0 (1 2 5 0
96
2 4 0
2 2 4
1 6 0
4 8 0

1300
60
2240 | 7 0 0 0 0 (34
6 7 2 0
1 0 8 0 0

10 000 lbs — 2000 ton

Mining — 20 — 400 —
Crushing 1st to 4th. 80 —

Gum 5-0-0
Reamplin 100
General 100
123-0

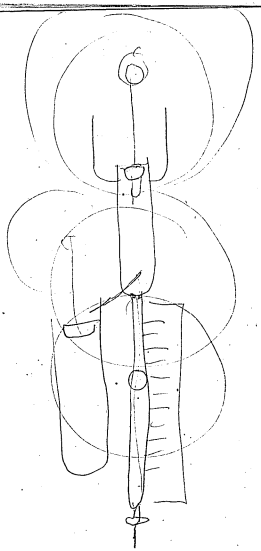
15-
150
15
75
15-0
225

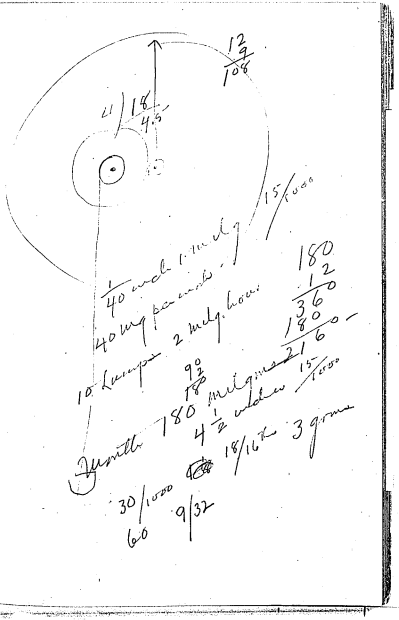
25-00
50,00
20,00,
40 8-0,
320,0-0
418-00

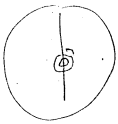
350
105

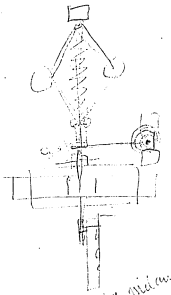
75-5 | 150—
30
50-

25
2000 | 15000 (75 = 275 50
140-0
1000
72
2
85-0




12
9
108
18
4.5
15/1000
1/40 each 1 mil q
40 mg per cent.
10 K units 2 mil q hour
180
2
360
180
216
90
18
Insulin 180 milligrams
4½ cubic
18/16 = 3 grams
15/1000
30/1000
60
9/32



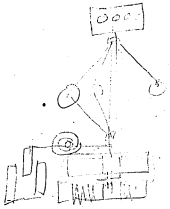


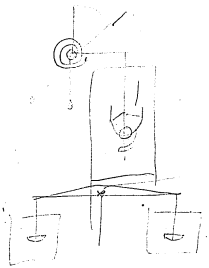
50 watt 450 ig Miniature

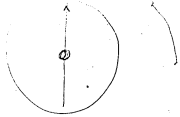
6 watt-
7 watts 100 Watt
5 1/100 amp

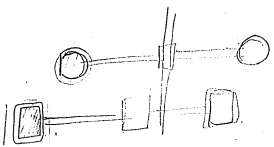
44
308

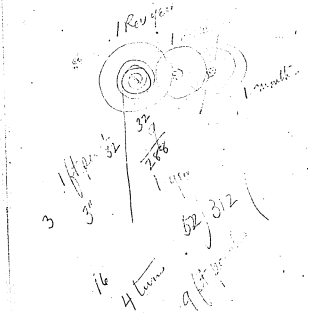
5 20

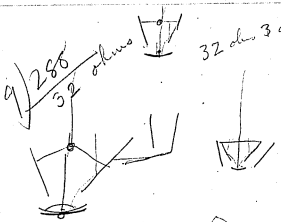


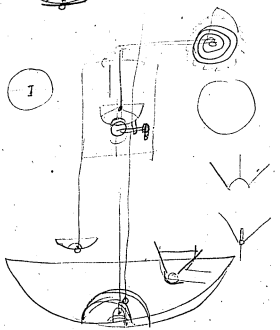







1 Rev per
1 amp
32
288
1 ohm
16
4 Ohms


9
288
32 ohms
32 ohms 3 amp


1

50 Milamp -

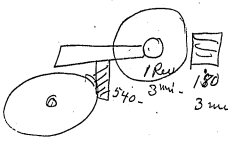
)450 9

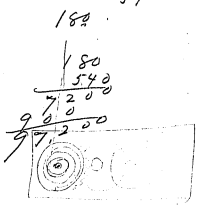
Res wire - 33 ohms -
field - 66 ohms 30 watts
100 ohms -

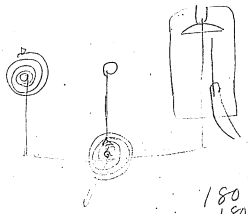
100 volt 1 amp
200 ohms - 500 ma
400 — 250 -
800 — 125 -
1600 — 62

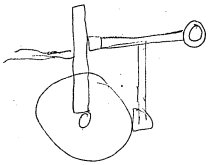
35 = 2500 (70 cents
245
3300 ff for 66

9) 3300 6
33) 366









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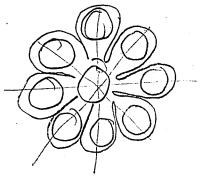

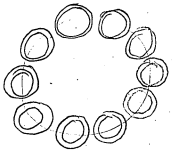

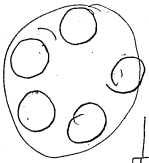

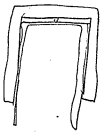

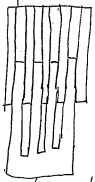

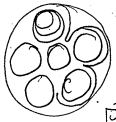

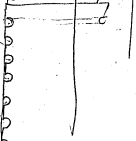

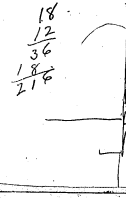

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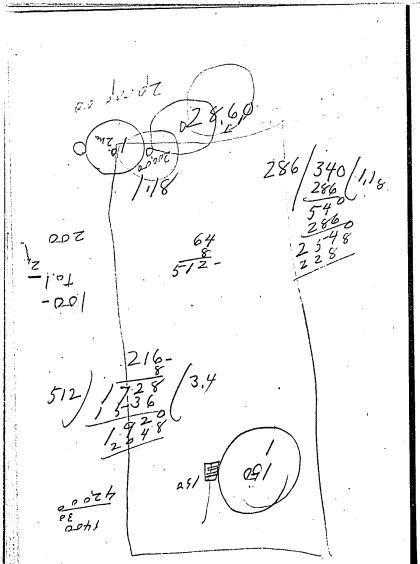
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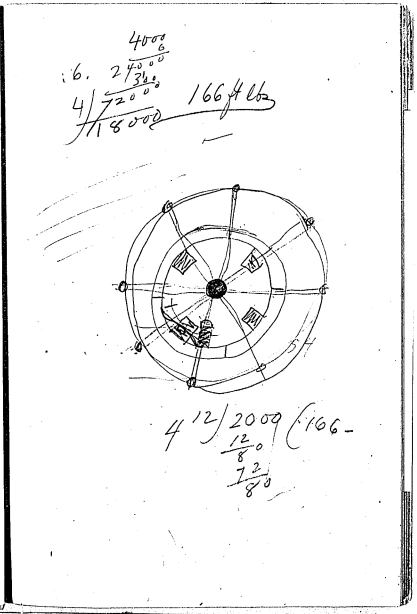
192
180
ASA


4000
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166 4/6
4 12/2000/166-
120
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72
8

Ashe

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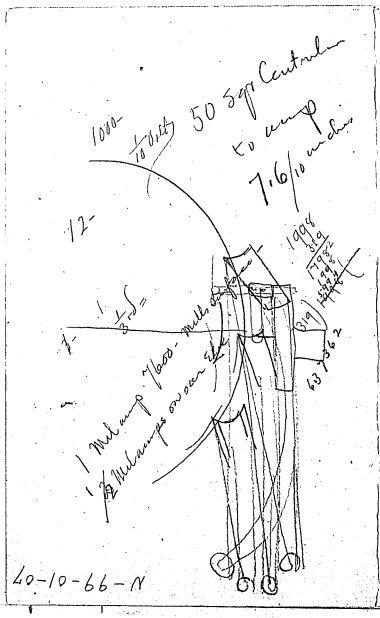

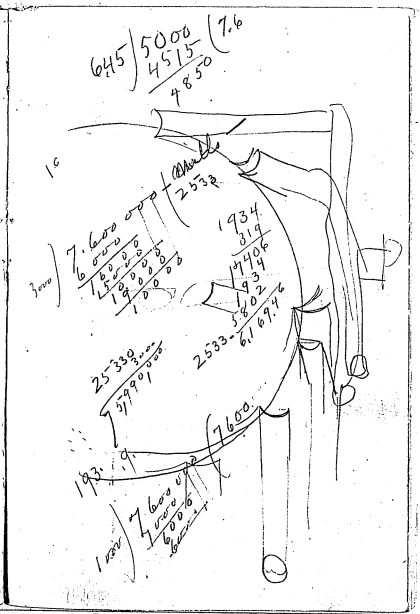

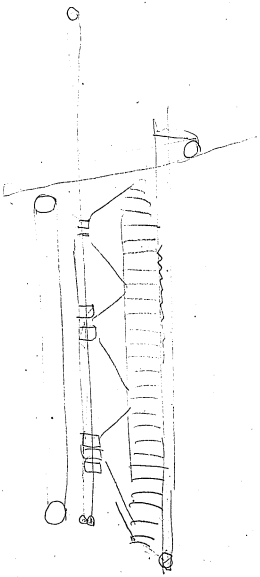

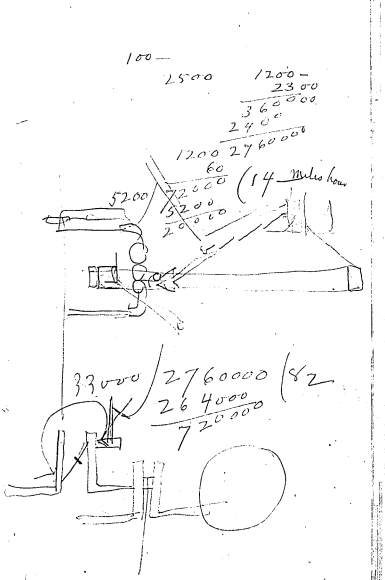
100
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36 0 00
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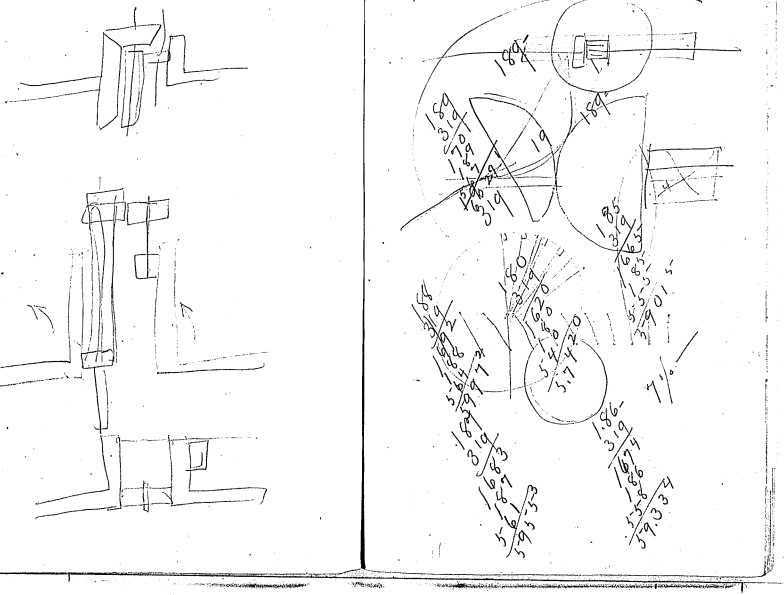
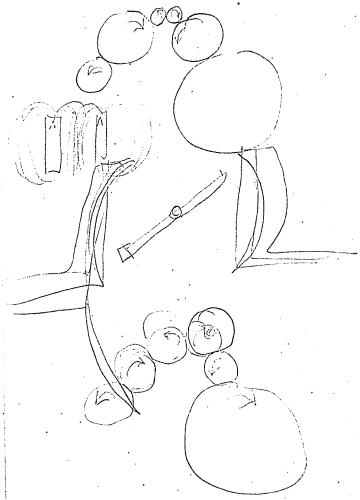
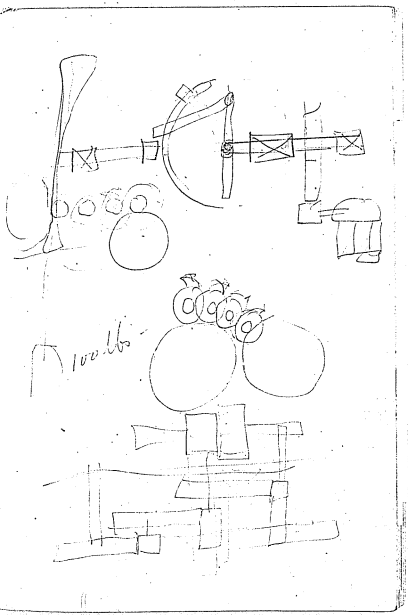
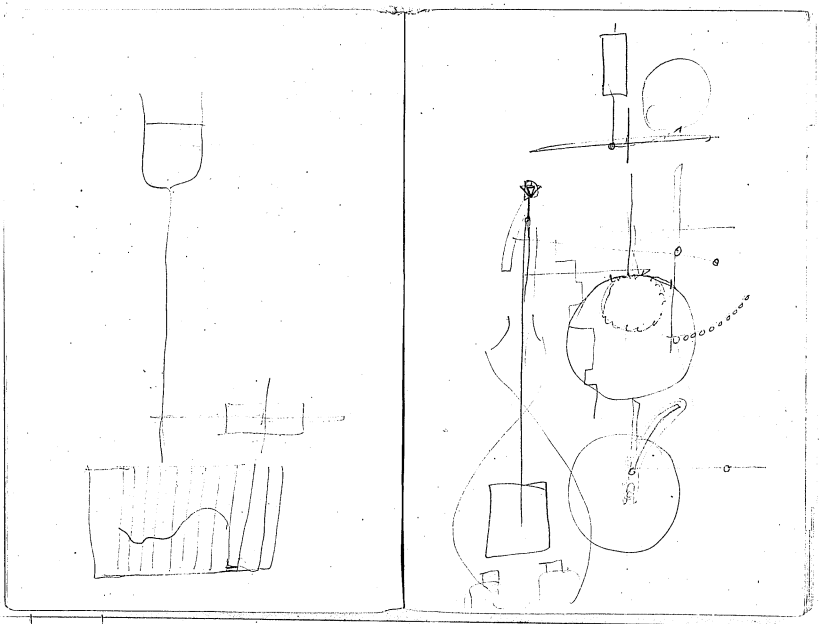
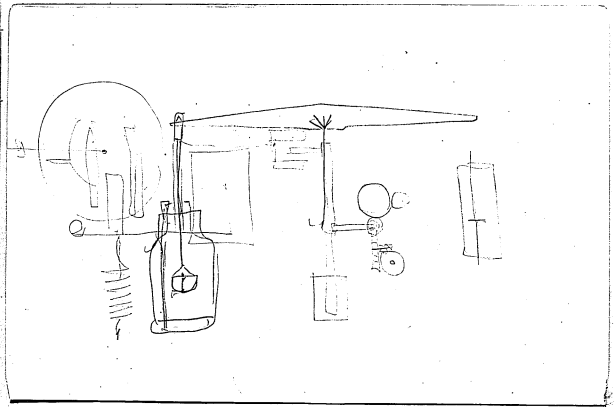
52 00
14 Miles hour
33000
2760000
26 4000
720000
82

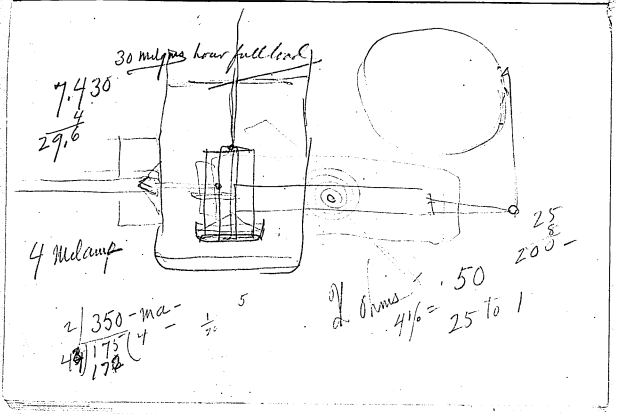






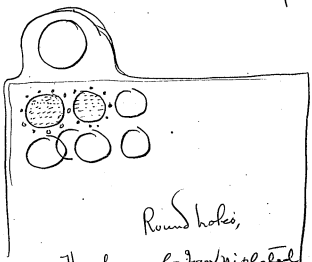





30 milliamp hour full load
7.430
29.6
4 Milamp
2/350-ma-
4 1/2 Ohms
4½ = 25 to 1
25
200

January 3rd 1903 —

Central Station Building



Round holes,

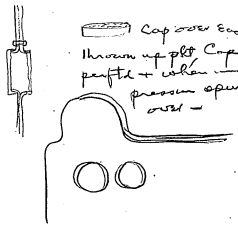
Thickness of Iron Nipples
from 7/16 stock — holes
1/2" dia —

X Ray sheets of 003 - with
perfs placed in each and
triolent to plate,
while brick is under pressure
in hydraulic press

TWS

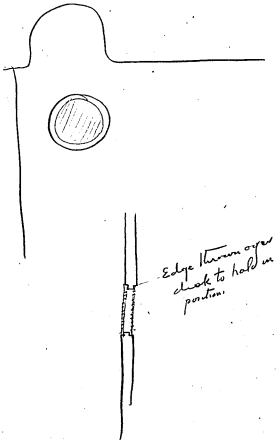
Jan 3rd 1903

Station 6 - Alley



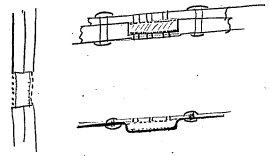
January 3 1903

Adelson Gallery



June 3 1903

Alaska Bill



One plate 1/32 thick has pockets formed in it by pressing. These plats have several layers of holes thru. [illegible] made in a disk

of 003 steel with round fine perfs another plat about 1/32 after brick of asbestos board to put in a [illegible] steel disk to placed on top of the whole

of plates with plate subjected to pressure, thus compresses all the bricks till the two plates are in contact then while under pressure rivits are placed in holes in proper position + rivited while under pressure -

The holes could be sequence as well as round - permitting economy in the 003 material

Even the 003 could be dispensed with + the several plates holes in plate filled with a mixture of reduced nickel mixed with hydrated paste + brought to yellow in hydrogen making porous plugs

Jany 3rd 1903

Kinetoscope —

I propose substituting for ~~the~~ Cutting light off
Entirely when picture is
moved an illumination of
the screen upon which the
picture is thrown by
using one shutter with 2
holes + by reflector throw
a beam of light from same
arc, the shutter cutting off
picture while the other
aperture is open illuminates
the screen + then cutting
this beam off while other
shutter is open + showing
picture, this will prevent
flickering

WKL

Jany 3 1903

Kinetoscope

I propose moving film continuously & using a very much more powerful light illuminating for only an instant like the old peep Kinetoscope but projecting on screen.

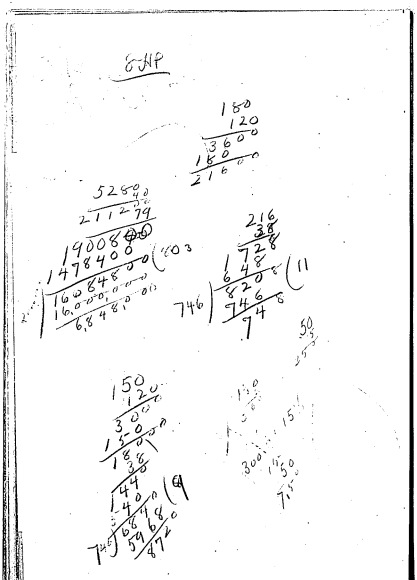
Also, using Ray Marchant's method advancing whole picture at once advance in 4 sections. This will with a 20 per sec Kinetoscope give 80 per sec movements & persistence of Vision will bridge over these required movements.

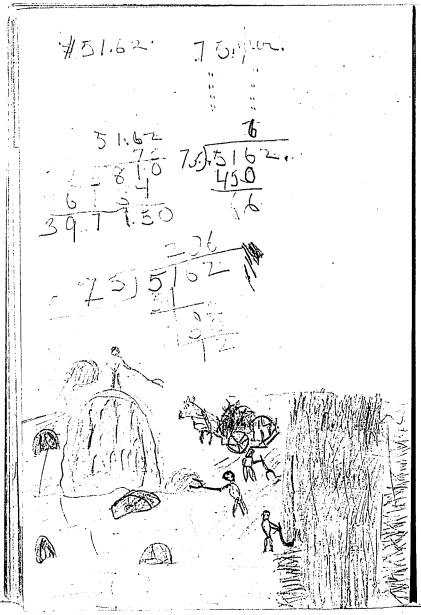
Jany 3 1903

I propose making a steel band of 003 or 2½/1000 steel same as used in Gatty perforate Edges Exactly like reg celluloid film + then perforate the spaces between the moving perforations by exact number of exactly similar perforations made in Gatting plates but with burrs ground off — Then the Sensitive Emulsion is poured over surface + after drying — ready for use — The great Expense of celluloid film is thus saved — The steel

May have squares
punched out + over
them fine cloth or silk
grounds secured upon which
the Embroidery is placed.

GNP





Mica Mines in Grafton Co NH.
principal source 3 Mines, the Ruggles
Valencia & Palermo mines last one dumped
in 1918 —

In NC Mines in Mitchel & Yancey Cos
. remote from RR. fine mica came from these
mines

Deposit mica recently opened near Cripple Creek
Colorado.

Large Deposits Mica in Canada
Can get info from Messrs McRae & Gilmour
+ prof J F Mc Donald Montreal —
Chief Depts Ottawa Co.

NHamp - p 514. geo Sur - ~~Worcester~~
Mica West Rumney in vein Continuing
South towards Groton, some Mica
from 15 to 18 inches across
Mica at Mc Clures — also near Orange
mica mined once

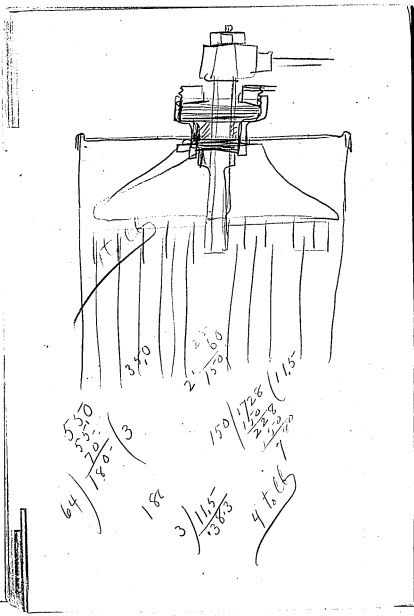
Grafton is main spot on Mica Vein
Mica Belt, many mica mines,
place near called Longhorn Mountain
where there is oldest Mica Quarry in the
State,
In Springfield granite is seen on,
Acorn Ledge & Hill has a Mica
mine South East of here —

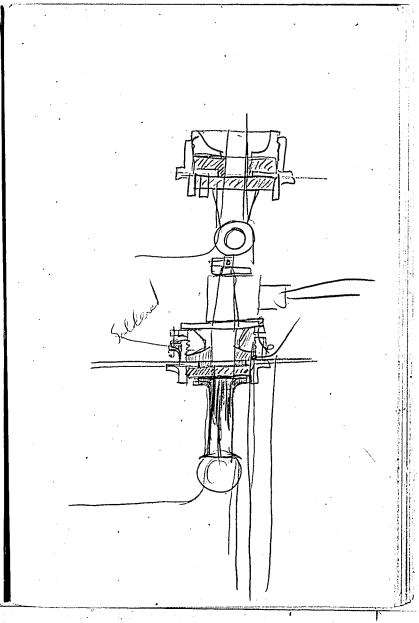
The Vein in Acworth has lots mica
mines - Dorchester in Alstead,
at D Knights, + G A Ridder
Mica quarries

Mica in Franklin + Cleveland
Cos NC in Cleveland Co
in 1885 there was 10 mines
U.S.G.S.
wkg — unusually extensive
deposits?

1885 new mines opened in South Mountain
near Newmanstown Penna
1885 several more mines opened near
Groton Mtt,
also at Nashua - principal yield
in Mtt is fm Valencia mine -

Colorado 1885 Vein Mica found
65 miles from Pueblo 5½ ft. wide in
Quartz traced 3000 ft. also
Mica Range sheets reported in
Vicinity Fort Collins but a Co
Quoted as sheets too small —
1885 - Gibsonville Mine at Petaca
in Rio Arriba Co, New Mexico Co
Irregularly worked
belt is 4 miles wide, 14 long largest
sheet yet Cut, 12 X 14 most of it
3 to 5½" Mined by Chango
pants (where Mica is all)


4 to 1
3 x 0
2 x 60
150
11.5
64
180
3
182
3
11.5
.383
4 to 1


Sellers

33	1932	1412	520
33	1990	1380	610
32	1432	1160	372
31	1919	1357	562
31	1942	1335	607
A 30	1607	1135	472
B 30	1567	1085	482
1st 28	1697	1310	386
2nd 28	1807	1180	627
A 1st 27	2532	1155	1377
A 2nd 27	2132	1155	977
B 1st 27	2433	1638	795
B 2nd 27	2162	1200	962

B-28 1st	1722	1282	440
28 2nd	1837	1112	725
A 29 1st	1690	1235	455
29 2nd	1740	1132	608
B 29 1st	1655	1215	440
29 2nd	1702	1175	527

1655 − 1215 = 440

1690 − 1235 = 455

1740 − 1132 = 608

722 − 440 = 282

2532 − 1155 = 1377

2132 − 1155 = 977

2433 − 1638 = 795

1697 − 1310 = 386

1702 − 1175 = 527

1607 − 1135 = 472

1919 − 1357 = 562

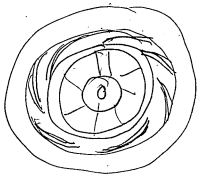
1942 − 1335 = 607

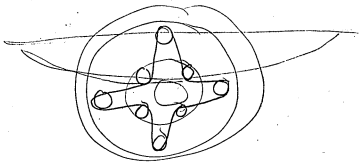
1807 − 1180 = 627

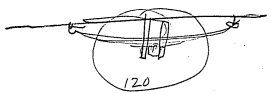
1567 − 1085 = 482

2162 − 1200 = 962

1837 − 1112 = 725







48
25
240
96
120.0

18
2)45
66
33

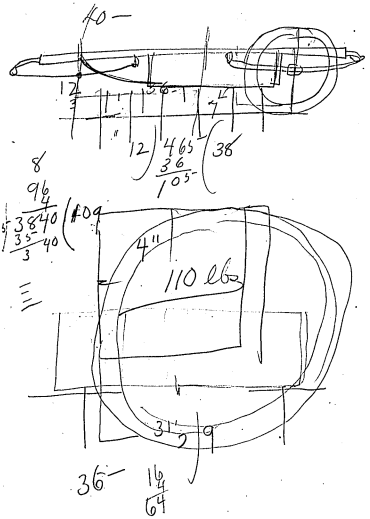
171 lbs –
169
2
100
98
3
400 lbs

7
35)600
350
250
245
5

33.

30
5
150
60

25
2
50


40
12
12
465
36
105
36
8
96
4
384
40
35
35
3
40
109
4"
110 26
31
2
9
36
16
64